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19. The V-belt transmission according to claim 8, further comprising:

a short sleeve;

a ramp plate; and

a long sleeve, wherein the short sleeve abuttingly engages the drive end

of the crankshaft and the long sleeve and the short sleeve sandwich the ramp

plate therebetween.

REMARKS

Applicants appreciate the Examiner's thorough consideration provided

the present application. Claims 1-19 are currently pending in the instant

application. Claim 8 has been amended. Claims 1 and 8 are independent. A

complete listing of the pending claims has been provided hereinabove for the

Examiner's convenience. Reconsideration of the present application is

earnestly solicited.

Claim Rejections Under 35 U.S.C. § 112

Claim 4 stands rejected under 35 U.S.C. § 112, second paragraph as

allegedly being indefinite for failing to particularly point out and distinctly

claim the subject matter which applicant regards as the invention. In light of

the foregoing amendments to the claims, Applicants submit that this rejection

has been obviated and/or rendered moot.

Claim Rejections Under 35 U.S.C. § 103

Claims 1-5, 7-17 and 19 stand rejected under 35 U.S.C. § 103(a) as

allegedly being unpatentable over Ishihara (U.S. Patent No. 4,567,958) in view

of Izumi (U.S. Patent No. 6,155,371). Claims 6 and 8 have been rejected under

35 U.S.C. § 103(a) over informal Official Notice. This rejection is respectfully

traversed.

Applicants submit that the Examiner's alleged combination fails to teach

each and every element of the claimed invention. In addition, the Examiner

has selectively extracted teachings from the prior art of record while ignoring

the teachings of the references as a whole. Accordingly, Applicants submit that

it would not have been obvious to modify the teachings of Ishihara in view of

Izumi.

The Examiner admits that Ishihara "does not disclose said fixed pulley

half being fixed to said transmission gears 140." With respect to claims 1 and

8, the Examiner is reminded that the fixed pulley half claimed by Applicants is

connected to the driving pulley side (claim 8), e.g. to the end of the crankshaft

(claim 1). In fact, Ishihara is directed toward the same type of arrangement

that Applicants describe in the Background of the Invention. Specifically,

Applicants have identified problems associated with the transmission system of

Ishihara and have invented a unique combination of elements that overcomes

these problems.

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Further, the Examiner has not identified any teaching in the prior art of

record that indicates that the arrangement of the nut and threaded shaft

arrangement clearly shown in BOTH Ishihara and Izumi (Figure 5, element

224) on the end of the crankshaft suffers from any art recognized problem.

Accordingly, absent Applicants' own teachings provided in their patent

application, the Examiner would not have had any reason to attempt to modify

Ishihara as alleged by the Examiner.

The Examiner allegedly relies upon the "teachings" of Izumi to modify

Ishihara. The Examiner has worded the rejection to state that "Izumi teaches

in figure 4, a fixed pulley half of a variable radius pulley half fixed to a shaft

with a bolt." However, this statement carefully ignores that the "bolt" (element

240 of Izumi) is affixed to the driven side of the transmission, e.g. main shaft

(element 186 of Izumi). In the claimed invention, the fixed pulley half is

connected to the end of the crankshaft, e.g. the driving side of the transmission

(e.g., please see element 224 on the crankshaft clearly shown in Figures 4 and

5).

In BOTH Izumi and Ishihara, the fixed pulley half on the driving side

(connected to the crankshaft) is affixed thereto by a nut (element 224 in

Figures 4 and 5). It is clearly apparent that Izumi does NOT teach that the

fixed pulley half on the driving side of a transmission should be affixed by a

bolt as in the claimed invention. In fact, Izumi is directed toward an

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arrangement that is merely evidence of the stated problem that Applicants have

attempted to solve.

The Examiner improperly alleges that Izumi teaches or suggests "it would

have been obvious to one of ordinary skill in the art at the time of the invention

to modify the apparatus of Ishihara in view of the teachings of Izumi to fix the

fixed pulley half to the crankshaft by a bolt engaged in a bolt hole within the

crankshaft to provide a greater thread engagement without increasing the overall

length of the crankshaft." (emphasis added) Applicants submit that this

teaching does NOT appear anywhere within the Izumi or Ishihara reference. In

fact, Izumi teaches the exact opposite of that alleged by the Examiner. Izumi

fixes the fixed pulley half to the crankshaft by a nut engaged with threaded

shaft.

The Examiner is clearly conducting a piecemeal extraction of only those

aspects of the Izumi reference pertinent to the rejection while completely

ignoring the entirety of the teachings that actually teach against the alleged

combination. Lines 2-3 of page 3 of the Examiner's Office Action has been

deliberately worded to only advance that portion of the Izumi reference that is

favorable to the alleged obviousness combination of the Examiner. One of

ordinary skill in the art would clearly appreciate that in the Examiner's

rejection, a complete and accurate description of the threaded shaft and nut

arrangement that is clearly shown in Figures 4 and 5 on the fixed pulley half

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connected to the driving side (crankshaft) of the transmission has been

omitted. This rejection is clearly improper.

If the Examiner persists in alleging that Izumi teaches the alleged

motivation to modify Ishihara, Applicants would appreciate an explanation on

the record how the Examiner feels that Izumi can deliberately show and

describe a nut and threaded shaft arrangement in the same location where it

allegedly teaches the opposite. Applicants fail to see how Izumi can be

interpreted to teach that "it would have been obvious to one of ordinary skill in

the art at the time of the invention to modify the apparatus of Ishihara in view

of the teachings of Izumi to fix the fixed pulley half to the crankshaft by a bolt

engaged in a bolt hole within the crankshaft to provide a greater thread

engagement without increasing the overall length of the crankshaft."

In accordance with the above discussion of the patents relied upon by

the Examiner, Applicants respectfully submit that these documents, either in

combination together or standing alone, fail to teach or suggest the invention

as is set forth by the claims of the instant application.

Accordingly, reconsideration and withdrawal of the claim rejection are

respectfully requested. Moreover, the Applicants respectfully submit that the

instant application is in a condition for allowance.

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As to the dependent claims, Applicants respectfully submit that these

claims are allowable due to their dependence upon an allowable independent

claim, as well as for additional limitations provided by these claims.

Conclusion

Since the remaining patents cited by the Examiner have not been utilized

to reject the claims, but rather to merely show the state-of-the-art, no further

comments are necessary with respect thereto.

All the stated grounds of rejection have been properly traversed and/or

rendered moot. Applicants therefore respectfully request that the Examiner

reconsider all presently pending rejections and that they be withdrawn.

It is believed that a full and complete response has been made to the

Office Action, and that as such, the Examiner is respectfully requested to send

the application to Issue.

In the event there are any matters remaining in this application, the

Examiner is invited to contact Mr. Matthew Shanley, Registration No. 47,074 at

(703) 205-8000 in the Washington, D.C. area.

If necessary, the Commissioner is hereby authorized in this, concurrent,

and future replies, to charge payment or credit any overpayment to Deposit

Account No. 02-2448 for any additional fees required under 37 C.F.R. §§1.16 or

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1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

JMS/MTS/clb

P. O. Box 747 Falls Church, VA 22040-0747

James M. Slattery Reg. No.: 28,380

(703)205-8000

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MARKED-UP VERSION OF AMENDMENTS

IN THE CLAIMS:

Please amend the claims as follows:

- 8. (Amended) A V-belt transmission comprising:
- a crankshaft having a drive end;
- a rear wheel drive section;
- a driving pulley operatively connected to said crankshaft;

and a driven pulley operatively connected to [a] the rear wheel drive section of said transmission;

a V-belt arranged between said driving pulley and said driven pulley, wherein said driving pulley includes a fixed pulley half fixed to an end portion of the crankshaft and an axially movable pulley half supported on the crankshaft in a position laterally opposite to the fixed pulley half; and

a bolt securing said fixed pulley half to the end portion of the crankshaft, said bolt threadingly engaged with a bolt hole formed within an interior portion of the end portion of the crankshaft.